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THIRD ANNUAL REPORT

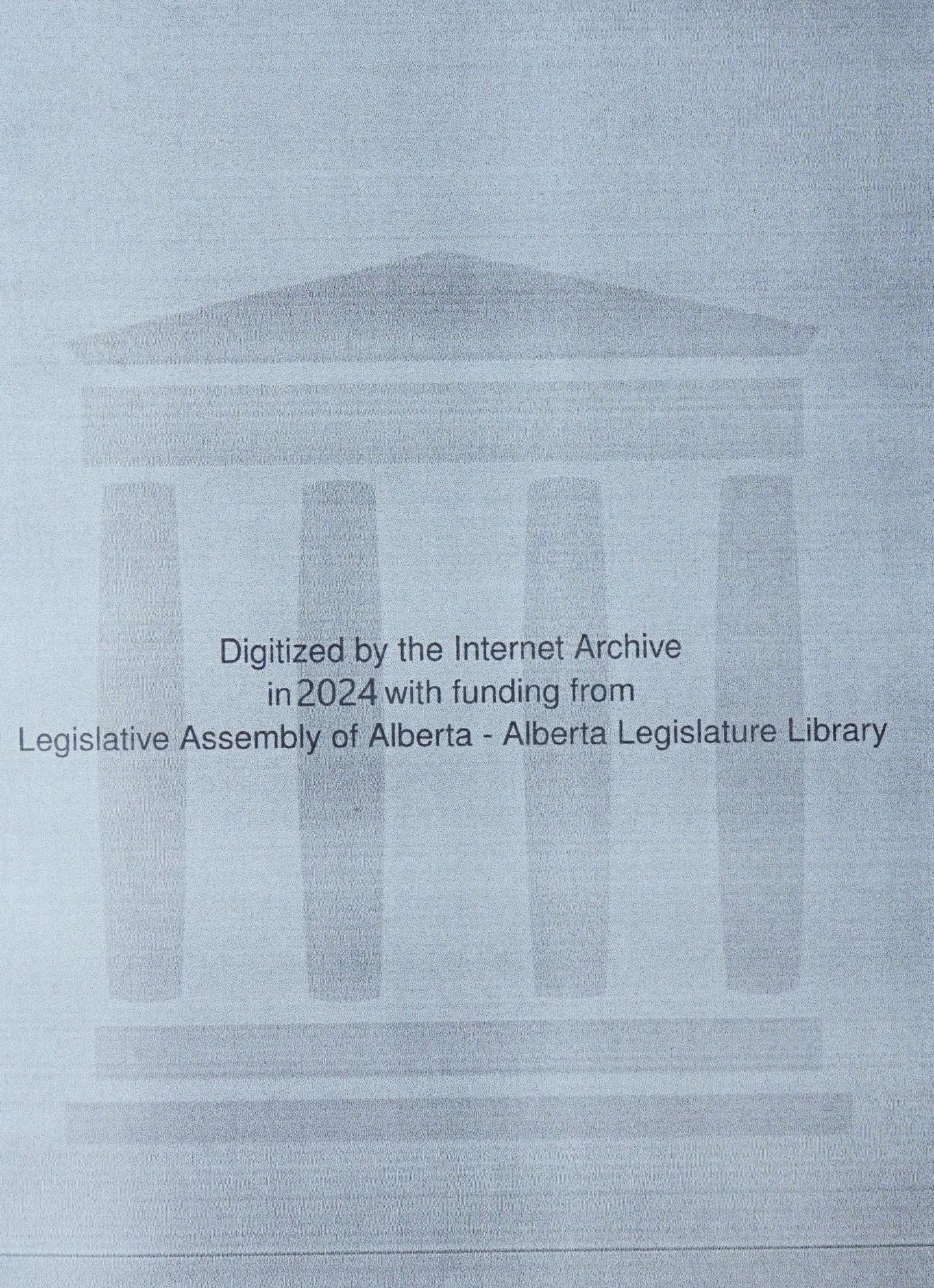
TO THE
LEGISLATURE



Alberta

HUMAN RESOURCES RESEARCH COUNCIL

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ALBERTA HUMAN RESOURCES

RESEARCH COUNCIL

THIRD ANNUAL REPORT TO

THE LEGISLATURE



PREFACE

Research is the art of exploring the unknown.

The Alberta Human Resources Research Council was established to explore some of the complex social issues which are a source of concern to both government and public.

In the first 28 months of its existence the Council has sought to establish the procedures for the conduct of such social research within the Alberta setting. Considering the difficulties of the task, the Council feels it has made significant progress toward the attainment of this goal.

However, the Council does not claim -- and hopes that others will not claim for it -- an ability to arrive at easy answers to the complex social questions which are currently taxing some of the best minds in the world. It would be unreasonable to expect this kind of dramatic result from the HRRC, or any other social research agency. But it is reasonable to hope that within the framework now established the Human Resources Research Council will begin to produce results which will better inform those responsible for shaping public policy.

In 1970, as in 1969, the HRRC continued to modify its structures to better meet the needs of practical social research. Within this framework it initiated a number of specific studies. Some results are already in; other studies are nearing completion; and the HRRC is now preparing to initiate a host of new projects.

A brief review of the Council's progress in 1970 is herewith submitted for your consideration.

L.W. Downey
Director



1970 ANNUAL REPORT

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MEMBERS OF GOVERNING COUNCIL

February 15, 1971

Hon. R.C. Clark, Chairman, Minister of Education

Dr. L.W. Downey, Director, Human Resources Research Council

Dr. W.E. Beckel, Academic Vice-President, University of Lethbridge

Mr. H. Bliss, Vice-President, Business & Finance, University
of Calgary

Dr. G.L. Burton, Rancher and Economist, Claresholm

Dr. T.C. Byrne, Deputy Minister of Education, Edmonton

Mrs. Mary K. Green, Chief Technologist, Canadian Red Cross
Blood Transfusion Service

Mr. F.W. Hoskyn, Principal, Collingwood School, Calgary

Hon. Ray Speaker, Minister of Social Development, Edmonton

Dr. Donald R. Wilson, Faculty of Medicine, University of Alberta

1970 ANNUAL REVIEW

The Human Resources Research Council of Alberta marked its second full year of operation in September, 1970.

The Council was created by an Act of the Provincial Legislature in 1967 (an Act assented to on March 30, 1967). The director, Dr. L.W. Downey, was named in January, 1968. But it wasn't until September, 1968, that a nucleus planning group was formed and the operations of the Council actually got underway.

To the end of 1970 the Council has had only 28 months in which to tackle the imposing challenges placed on it by its broad and complex mandate.

The legislation says "The objects of the Council are to undertake educational, social, economic and other research relating to and affecting the development and conservation of human resources in Alberta."

How to interpret this broad directive has been, and continues to be, one of the Council's most pressing concerns. The Council has had few precedents to guide it and has had to feel its way -- often by trial and error -- when planning and carrying into action the dictates of the mandate.

In 1970, as in 1969, the Council's work was organized around specific objectives which were seen to be inherent in the legislation. For example:

- * To conduct, or facilitate research in the human or social domain.

- * To make known any findings which the Council felt might be significant to the determination of social policy.
- * To develop plans, materials, and procedures relating to various aspects of human resource development.
- * To assist all citizens of Alberta in understanding emerging trends and problems in the area of human resource development.
- * To assist in the training of others engaged in similar research and development.

From these general objectives the Council has initiated projects which focus on specific themes, themes which include:

1. Studies of education.
2. Studies which concentrate on social and economic opportunity.
3. Studies of planning and of the future.
4. Studies of human behaviour.
5. Studies of urban life.

The Council expects, indeed anticipates, that accumulating experience and fresh insights will require changes in some of its preliminary interpretations of the Legislative mandate.

The Council sees no substitute for time in the growth and final maturity of the Human Resources Research Council. The growth can be facilitated, but it cannot be hurried.

STRUCTURE OF HRRC

The Human Resources Research Council is a corporation created by the Alberta Legislature.

Its operations are under the control of a ten-man Governing Council appointed by the Lieutenant-Governor in Council. Two of the ten-man group must be members of the Alberta Executive Council, and one must be the director of the Human Resources Research Council. The chairman of the governing group must be one of the two members from the Executive Council.

During 1970, the Governing Council met four times. The ten-man group sets policy, specifies duties and conduct of the Council, and generally oversees the operations of the research agency.

Day-to-day operations of the Human Resources Research Council are the responsibility of the director.

It is believed at HRRC that discussion which crosses all normal disciplinary borders is important to the healthy development of a human resources research agency. It is assumed that contacts between apparently different and unrelated program areas is essential to an understanding of highly complex modern social situations. To encourage this concept, HRRC has attempted to avoid a highly-structured ranking system which defines job categories too tightly.

In general, the staff of the Council falls into one or the other of the following categories:

- 1) The coordinator; a senior officer responsible for the whole of a major program area, or in one case, for

organization-wide administrative services.

- 2) The research officer; a senior research position.
- 3) Associate coordinators, and research associates.
- 4) Research assistants.
- 5) Specialized support personnel; a computer expert, an editor, an information officer.
- 6) Secretarial and clerical staff.

Thirty-three people are on the strength of the full-time in-house staff based at Edmonton and Calgary. A further eleven people, including three of the program area coordinators, work on a full to part-time basis for HRRC but technically remain on the staff of another organization (in almost all cases this arrangement has been struck to enable HRRC to call on the services of senior university personnel).

The main body of HRRC's in-house staff works out of a former one-storey hospital building in Edmonton located at the corner of 115 Street and 74 Avenue, close to the university. The Calgary headquarters -- established in May, 1970 -- is located in the Vocational and Rehabilitation Research Institute at 3304 - 33 Street North West.

RESEARCH AND DEVELOPMENT

In reducing its broad mandate to working plans the Human Resources Research Council has adopted a multi-faceted approach.

Some research and almost all development work is done

in-house by HRRC's full-time staff.

Some research is done by scholars who are commissioned to work on specific projects which relate directly to program themes developed by the Council's in-house staff.

The Council also supports a grants-in-aid program which finances research studies submitted to the Council by individual researchers, studies which may or may not relate directly to program themes developed by the Council's in-house staff.

It has been felt that the research and development objectives appropriate to the mandate could not be reasonably met through a wholly in-house program. The use of commissioned researchers allows the Council to call upon a broad range of research talent which it could not hope to maintain on a full-time basis. The commissioned studies approach also allows the Council great flexibility as the commitment to commissioned researchers terminates upon completion of the particular project they were engaged to investigate.

On the other hand, a strong in-house strength is essential to carrying out the development research role assigned to the Council. In order to conduct trials in the field, and in order to develop in practice research proposals which seem ready for development, the Council has found that there is no alternative to mounting its own operation staffed by in-house personnel. It is not feasible at the present time to commission developmental research in the social area. The Council has identified an urgent need for development research facilities and in order to meet the need has been

obliged to create its own capability in this area.

The Council has found that the distinction between theoretical research and development research in the social sphere is not generally acknowledged. In practice, the distinction is as clear cut as it is in physical research and generally of the same character.

For example: during research done in Alberta into the feasibility of solids pipelining there was a long period when work with theoretical and small-scale physical models was sufficient to advance the research team's understanding of the method. There came a time, however, when the theoretical and small-scale physical models ceased to yield significant new information. There came a time when the methods developed in theory, and successfully tested on a small-scale, had to be tested on a full-scale model. At this point the project went from a so-called "theoretical research" status to a "development research" status. There comes a time in many social research projects when further results can only be obtained by testing promising theoretical results in the field. This type of activity fulfills the development research role assigned to the Human Resources Research Council and is regarded by the Council as vital to the success of its operation.

As already noted, if the Council is to pursue its development research role, it must create its own in-house capability for doing so. This is an expensive process. In the pipeline example the work with theoretical and small-scale models was relatively

inexpensive. When this inquiry went to a full-scale model, however, costs soared. The cost of the full-scale solids pipeline model ran into hundreds-of-thousands of dollars. The theoretical and small model stage was adequately handled in the tens-of-thousands of dollars range.

The cost relationship in the human resources research field is analogous. Compared to development research costs, theoretical research (whether commissioned or done in-house) is relatively inexpensive. As the Human Resources Research Council moves more strongly into its development research role, the costs for this part of its operations must be expected to increase appreciably. Experience to date, particularly in the education studies program area, confirms that research costs do tend to increase dramatically in the human resources research sphere as soon as the project is moved forward from the theoretical to the development research stage.

PROGRAM AREAS

Major program areas during 1970 included education studies, socio-economic opportunity studies, human behaviour studies, and urban studies. Brief details of each program area are listed below. A complete list of projects under each heading will be found in supplementary Section C.

Education Studies

The planning and administration of research and development activities in education are undertaken by the coordinator

and his staff in consultation with an advisory committee and a review board, both of which include representatives from various sectors of the educational community in Alberta.

Current programs include: Individually Prescribed Instruction (IPI), a new non-graded approach to individualizing curriculum and instruction; Project SEARCH (Selection of Educational Alternatives for Rural Change); Project AIDE (Association for Innovation and Development in Education); the Educational Planning Mission; the Humanization of Learning Mission; and Project Canada West.

In terms of personnel and budget, Education Studies is the largest of HRRC's four major program areas.

Socio-Economic Opportunity Studies

Several research projects are underway, and others are planned, which are concerned with the opportunities of Albertans in the areas of health, education, employment, legal justice, and socio-political efficacy. These projects are seeking answers to the following questions:

What factors in Alberta tend to constrain the attainment of the aspects of opportunity identified above?

What is the level and distribution of these factors in Alberta?

Most of the research projects of this area are carried out on a commissioned basis.

Human Behaviour Studies

The general aim of this program area is to stimulate and coordinate a province-wide program of research and development on mental health, crime and delinquency, addiction, family life, and aging. As in Socio-Economic Opportunity Studies, the research program is undertaken largely by commissioned researchers.

Urban Studies

The rationale for this program is based on the knowledge that the Alberta environment is increasingly developing into an urban environment. The emphasis of the work done in the first year was exploratory. It was intended to identify the problems arising from urban developments that lie beyond the research conducted in specialized departments of provincial and municipal governments.

SPECIAL PROJECTS

Research which cuts across all program areas, and commissioned research carried out for or in cooperation with other agencies is considered to come under the general and somewhat miscellaneous heading of special projects.

Of particular interest to HRRC are projects designed to provide the organization as a whole with an adequate and up-to-date data base. A study to determine the statistical and data needs of HRRC and to establish ways in which statistical capabilities of other research agencies might be brought to bear in meeting the needs

of HRRC, has already been completed. Follow-up action recommended as a result of the study is under active consideration by the Council.

During 1970 HRRC was commissioned by the Council of Ministers of Education in Canada to undertake a study of alternative policies for financing post-secondary education. This study is expected to provide the basis for negotiations between the federal and provincial governments upon the expiry of the current Financial Arrangements Agreement in 1972.

In 1969 the Human Resources Research Council was enlisted to serve as the research arm for the Alberta Commission on Educational Planning. In this capacity it conducted research studies directly, or acted as broker in negotiating research studies on behalf of the Commission. Important aspects of this special project came to fruition in 1970. Highlights included the Congress on the Future: Education held during early December in Edmonton; publication of "Social Futures Alberta, 1970-2005"; and the completion of a major demographic, and economic forecast for the province.

ORGANIZATION SERVICES

This is a separate operating unit of HRRC responsible for the administrative, business, and support services on an organization-wide basis. These include:

- * Administration of the grants-in-aid program, designed

to encourage researchers outside the Council to develop new and promising ideas which are related to human resource development.

- * Negotiation and administration of contracts for research commissioned by the Council.
- * Staff recruitment and personnel services.
- * Budget preparation and financial management.
- * Purchase, rental, and maintenance of equipment.
- * The editing and production of Council publications.
- * Library services.

PUBLICATIONS

The Human Resources Research Council issued only two major publications during 1970.

Urbanization and Urban Life in Alberta, a monograph based on the proceedings of the Urban Studies Symposium sponsored by HRRC in late 1969, was published in April. Social Futures: Alberta 1970-2005, previously referred to in the section on Special Projects, was published in December.

As results from a number of research projects began to come in during 1970 the Council established an ad hoc committee to examine its whole publications and dissemination function. The work of this committee resulted in the creation in late 1970 of a five-member publications and dissemination committee -- popularly known as the P & D Committee. The committee already has before it a

number of completed commissioned studies, staff-written research reports, conference proceedings, and completed grants-in-aid projects. On the basis of the manuscripts now before it, and in anticipation of new material likely to be presented to it in 1971, the P & D Committee expects that the volume of published material in the coming year will -- for the first time -- begin to accurately reflect the wide scope and broad research interests being pursued by the Council.

CONFERENCES AND SEMINARS

The Human Resources Research Council, in collaboration with the Canadian Council for Research in Education, co-sponsored a major conference on educational planning entitled "Social Goals, Educational Priorities, and Dollars: Planning Education in the Seventies" held at the Banff School of Fine Arts, October 18th to 21st. The conference attracted educational planning specialists from across Canada.

In conjunction with the Alberta Commission on Educational Planning, HRRC was co-sponsor of a second major conference entitled, Congress on the Future: Education, held in Edmonton December 3rd to 5th. This was an invitational congress at which a cross-section of Albertans attempted to come to grips with some of the educational policy implications arising out of HRRC-supervised studies on the future of the province.

During the year HRRC also continued its sponsorship of

seminars organized around themes pertinent to particular program areas. As part of its continuing effort to produce quality research, the SEOS unit held four resource seminars -- one in April, one in July, one in September, and one in November. The purpose of the seminars is to bring together SEOS-commissioned researchers with other experts to consider a particular aspect of research currently underway.

In mid-June Education Studies held a seminar in Edmonton to examine the rationale of its Humanization of Learning Mission. About 55 people gathered at Barnett House for the seminar, including ten paid experts, to review the program plans which had been worked out for the project.

SUMMARY

Towards the end of 1970 HRRC invited three outside evaluators to examine the affairs of the Council. While this Review Committee raised some hard questions about the future directions in which HRRC might move, its findings regarding HRRC's current operations were generally favorable. To quote from the report: "Overall the committee has not found any major issues which are of immediate concern to the conduct of HRRC affairs."

The Review Committee's findings were presented to and discussed by the Governing Council in January, 1971. This fresh input from an outside source assisted the Council in its task of

continual evaluation. It is, the Council hopes, indicative of the spirit which pervades the organization. The Council has questioned, and will continue to question, the manner in which it performs its work and the value of the products this work produces.

The Council did not find in 1970 -- and does not expect to find in 1971 -- the answers to complex social questions of concern to the government and people of Alberta. HRRC is, however, beginning to develop a practical research capacity which may assist in creating carefully documented policy alternatives for consideration by those who shape social action. The Council believes these new inputs could play a vital role in helping the people of Alberta to adapt to, and take fullest advantage of, a changed future which is rapidly approaching or, in some cases, is already upon us.

SUPPLEMENTARY MATERIAL A - PERSONNEL

<u>FULL-TIME STAFF</u>	<u>POSITION</u>	<u>ORGANIZATION UNIT</u>
Dr. H.S. Baker	Research Officer	Unassigned
Mrs. P. Bourgette	Research Assistant	Education Studies
Mrs. Judith Carefoot	Editor	Organization Services
Mr. A. Cleveland	Project Administrator	Education Studies
Dr. L.W. Downey	Director	
Mr. George Emery	Research Assistant	Unassigned
Mr. David Flathman	Research Programmer	Organization Services
Mr. David Gray	Information Officer	Office of the Director
Mr. John Hanson	Research Assistant	Organization Services
Mr. John Hudson	Coordinator	Organization Services
Dr. E.J. Ingram	Coordinator	Education Studies
Miss Glenda Lamont	Research Assistant	Urban Studies
Mr. Ken Lederer	Research Assistant	Education Studies
Mrs. Susan McDaniel	Research Assistant	SEOS
Mr. Stuart McRae	Research Assistant	Education Studies
Mr. R.V. Neely	Business Manager	Organization Services
Dr. J.A. Riffel	Associate Coordinator	Education Studies
Dr. F. Sukdeo	Research Officer	SEOS
Mr. L.R. Taylor	Research Assistant	Urban Studies
Miss Rondo Wood	Research Assistant	Education Studies

<u>PART-TIME AND SECONDED STAFF</u>	<u>POSITION</u>	<u>ORGANIZATION UNIT</u>
Dr. David Bettison	Coordinator	Urban Studies
Dr. W.R.N. Blair	Coordinator	Human Behaviour
Mr. S.G. Cowley	Research Assistant	Education Studies
Dr. John Fritz	Mission Head	Education Studies
Dr. K. Krotki	Coordinator	SEOS
Dr. D. Larsen	Associate Coordinator	Human Behaviour
Dr. Erwin Miklos	Mission Head	Education Studies
Dr. T.O. Maguire	Evaluator - IPI Project	Education Studies
Dr. Frank Oliva	Project Head	Education Studies
Dr. S.G. Peitchinis	Coordinator	Special Projects
Dr. W.G. Roberts	Project Head	Education Studies
Dr. R. Sabey	Project Director Canada West	Education Studies
Dr. L. West	Evaluator Project SEARCH	Education Studies

SUPPLEMENTARY MATERIAL B - BUDGET

HUMAN RESOURCES RESEARCH COUNCIL
FINANCIAL POSITION
AS AT DECEMBER 31, 1970

	BUDGET APPROPRIATION <u>1970-71</u>	EXPENDED TO DECEMBER 31/70
DIRECTOR AND PROGRAM DEVELOPMENT	\$114,106.00	\$ 72,016.45
ORGANIZATION SERVICES	224,879.00	134,889.83
EDUCATION STUDIES	262,263.00	195,130.40
SOCIO-ECONOMIC OPPORTUNITY STUDIES	149,000.00	110,738.17
URBAN STUDIES	36,743.00	22,564.92
HUMAN BEHAVIOUR STUDIES	58,200.00	58,200.00
STUDIES OF THE FUTURE	54,809.00	54,809.00
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	\$900,000.00	\$648,348.77
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SUPPLEMENTARY MATERIAL C - RESEARCH PROJECTS

PROGRAM AREA #1: EDUCATION STUDIES

Coordinator: Dr. E.J. Ingram

Mission #1: I.P.I. -- (Individually Prescribed Instruction) --
Dr. F. Oliva and Dr. T.O. Maguire

A development and field testing project in three Alberta schools to determine the effectiveness of I.P.I. materials for use in Alberta. (3 year commitment).

Mission #2: Humanization of Education -- Dr. J.O. Fritz

A large-scale R. & D. mission designed to test certain theories re. the "human", "individual", and "affective" aspects of education -- ultimately to create models of "humanized" educative environments. Termination in 1975.

Mission #3: SEARCH -- (Selection of Educational Alternatives for Rural Change) -- Dr. G. Roberts and Dr. L. West

An attempt to assist rural communities in improving their educational opportunities. This is a "self-help" project in which the communities of Bentley and Eckville in Lacombe County will select and then test various innovations in their community high schools. School and community task forces have been established, as well as a Provincial Task Force which will provide advice and assistance to the local task forces.

Mission #4: Planning -- Dr. E. Miklos

A large-scale research and planning mission in which the sociological, political and technological aspects of planning

are investigated.

Project #1 -- Structures and Processes	- E. Miklos
Project #2 -- P.P.B.	- W.R. Duke, J. Hudson E. Miklos and others
Project #3 -- Evaluating Educational Systems	- D.A. MacKay and T.O. Maguire
Project #4 -- Cost-Effectiveness Techniques	- P. Atherton
Project #5 -- Opportunity-Participation Index	- C. Bumbarger and D. Friesen
Project #6 -- Systems Analysis	- In-House Staff - HRRC

Mission #5: Computer Applications -- Dr. J.A. Riffel

Mission completed and phased-out.

Mission #6: AIDE -- (Association for Innovation and Development in Education) -- Dr. E. Ingram and Dr. J.A. Riffel

The general purpose of this project is to assist educators in improving their skills and mechanisms for "managing change" and to facilitate the development of more adequate "change managing" models. To this end it is proposed to collaborate with various provincial agencies which are concerned with managing educational change and with six to twelve volunteer school systems.

Mission #7: Project Canada West -- Dr. R. Sabey

The development and assessment of materials and methods to assist the Canadian school student to understand the impact of urbanization on his environment. The Council is providing limited assistance to this project which receives its major support from the Canadian Studies Foundation, Toronto.

PROGRAM AREA #2: SOCIO-ECONOMIC OPPORTUNITY

Coordinator: Dr. K. Krotki

Chapter 1. Socio-Political Studies

- 1.1 Adjustment of Immigrants and Inter-Province Migrants in Alberta -- by Dr. F. Sukdeo, HRRC.
- 1.4 Economics of Present Welfare System in Alberta and Canada -- by D. Rowlatt, Department of Economics, Princeton and HRRC.
- 1.16 Data Base Required by Social Indicators -- by Dr. E. Snider -- Department of Sociology, University of Alberta

Chapter 2. Economics of Education

- 2.3 Supply and Demand for Teachers in Alberta -- by D. Shapiro, Department of Economics, Princeton.

Chapter 3. Employment

- 3.1 Employability of Welfare Recipients and Nature of Employment of Low Income Recipients -- by Dr. S. G. Peitchinis, Department of Economics, University of Calgary.

Chapter 4. Health

- 4.1 Social Opportunity for Health Care in Alberta Region -- Dr. C.A. Meilicke, Division of Health Services Administration, University of Alberta.
- 4.3 Identification and Analysis of Health Records in the Province -- by Dr. G.L. Briggs and Dr. L.E. Larson, Department of Sociology, University of Alberta.
- 4.9 Hospital Utilization Patterns -- by R.H.M. Plain, Department of Economics and Community Medicine, University of Alberta.

Chapter 5. Legal Justice

- 5.1 Data Sources and Legal Statistics -- by V. Matthews, Department of Sociology, University of Alberta.

Chapter 7. Sources and Services for SEO Studies

- 7.1 A Technical Report on the Uses, Problems and Potential of Qualitative Dependent Variables as Applied in the Social Sciences -- by A. Buse, Department of Economics, University of Alberta.
- 7.2 The Development of a Profile-Facility for User-Designated Areas -- by W. McVey, Department of Sociology, (Population Research Laboratory), University of Alberta.
- 7.7 The Potential For and Utilization Of Social Science Research -- by Dr. A. Matejko, Department of Sociology, University of Alberta.

PROGRAM AREA #3: HUMAN BEHAVIOUR

Coordinator: Dr. W.R.N. Blair

This program area, approved by Council in April of 1970 and launched in July of 1970 builds upon the Blair report on Mental Health in Alberta published in 1969. The first year is to be primarily a planning and program development year and is to pay careful attention to the acceptance of a baseline established in the Blair report.

Projects Underway

An Investigation Into the Operational Definition of Depression -- by Dr. C.G. Costello, Professor of Psychology, University of Calgary.

The purpose of the project is to assess the adequacy of an operational definition of depression in terms of reduced frequency of behaviours.

An Investigation Into the Therapeutic Efficacy of Electro-convulsive Shock (ECS) -- by Dr. C.G. Costello, Professor of Psychology, University of Calgary.

The Use of Normal Peers as Models in Training
Imitative Behavior in Young Retarded Children
-- by Dr. D.T. Pearson, Assistant Professor,
Department of Psychology, University of Calgary.

The project will investigate the manner in which
5 - 6 year old mildly to moderately retarded children
can be trained to imitate 6 year old peers of normal
intelligence.

Projects Completed

A Study of Existing Programs in the Alberta Division
of Alcoholism -- by Dr. J.E. Boyd, Department of
Psychology, University of Calgary.

The purpose of this study was to examine the nature
of the services provided by the Division of Alcoholism,
Alberta Department of Health.

PROGRAM AREA #4: URBAN STUDIES

Coordinator: Dr. David Bettison

This program area was approved by Council in April
of 1970 and launched in July of 1970. This year is to be
primarily a planning and program development year. Concentra-
tion is to be upon baseline studies of various sorts and
careful attention is to be paid to the possibility of collabora-
tion with the study of "The Quality of Urban Life" to be
launched by the Government of Alberta.

The Planning and Development of a Research Program
in Urbanization -- by Dr. D. Bettison, Department
of Sociology and Anthropology, University of
Lethbridge.

Migration and Changing Settlement Patterns in Alberta -- by Dr. V.B. Proudfoot, Department of Geography, University of Alberta.

To measure changes in Alberta centers of less than 15,000 population, to investigate relationship of these changes for future patterns of settlement, and to investigate the role of migration in growth and decline of these centers.

PROGRAM AREA #5: SPECIAL PROJECTS

Coordinator: Dr. S.G. Peitchinis

This program area includes projects and activities which cut across two or more of the established program areas. Many of the projects in this program area are designed to produce close program coordination and cross program linkages.

Data and Statistical Needs of HRRC and Relationships With Other Data Users -- by Mr. B. Holmlund, Department of Computational Science, University of Saskatchewan, Saskatoon.

A study to determine the statistical and data needs of HRRC and to establish ways in which statistical capabilities of other research agencies might be brought to bear in meeting the needs of HRRC. Study complete.

Financing Post-Secondary Education -- by Dr. S.G. Peitchinis, Department of Economics, University of Calgary.

A study commissioned by the Council of Ministers of Education in Canada to provide alternative policies on the financing of post-secondary education. To provide the basis

of negotiations between the provinces and the federal government upon the expiry of the Financial Arrangements Agreement in 1972.

PROGRAM AREA #6: SPECIAL PROJECTS FOR THE COMMISSION ON EDUCATIONAL PLANNING

Coordinator: Dr. L.W. Downey

The Human Resources Research Council serves as the research arm of the Commission on Educational Planning, and in this capacity either conducts studies directly or acts as a broker in negotiating research studies on behalf of the Commission.

An Outline of the Future: Some Facts, Forecasts and Fantasies -- by Dr. Harold Dyck.

Social Forecasts for Alberta: 1970-2005 -- Westrede Institue.

Alberta 1980 and 2005: Demographic, Economic and Technological - Industrial Forecasts -- by Dr. D. Seastone.

Educational Implications of Future Forecasts -- by Dr. H. Baker and Mr. G. Emery.

Recent Developments in Independent Studies in Higher Education in the U.K. -- Dr. F. Terentiuk.

Current and Future Problems of Alberta School Principals -- by Dr. N. Chamchuk.

A Comparative Study of Planning in Canada, United States and Europe -- Dr. W.A.S. Smith.

Futures Related to the Implementation or Non-Implementation of Recommendations of the Cameron Commission -- by Dr. E. Miklos et al.

SUPPLEMENTARY MATERIAL D - ADVISORY COMMITTEES

EDUCATION STUDIES ADVISORY COMMITTEE

Dr. S.C.T. Clark
Secretary, Alberta Advisory
Committee on Education Studies
322 University Hall
Edmonton 7, Alberta

Dr. L.W. Downey
Director, Human Resources
Research Council
11507 - 74 Avenue
Edmonton 62, Alberta

Mrs. D.W. Elves
Alberta Federation of Home and
School Associations
300 - 6 Avenue South East
Calgary, Alberta

Dr. F. Enns, Associate Dean
Planning and Development
Faculty of Education
University of Alberta
Edmonton 7, Alberta

Dr. Milton Fenske, Director of
Administrative Services
Alberta Colleges Commission
11160 Jasper Avenue
Edmonton 7, Alberta

Dr. A.A. Gibb, Acting Dean
Faculty of Education
University of Calgary
Calgary 44, Alberta

Dr. A. Griffiths
Alberta School Trustees'
Association
Leduc, Alberta

Dr. J.S. Hrabi
Director of Curriculum
Department of Education
Edmonton, Alberta

Dr. N.P. Hrynyk
Alberta Teachers' Association
11010 - 142 Street
Edmonton 50, Alberta

Dr. E.J. Ingram, (Chairman)
Human Resources Research Council
11507 - 74 Avenue
Edmonton 62, Alberta

Mr. O.P. Larson
Superintendent of Schools
Lethbridge School District #51
433 - 15 Street South
Lethbridge, Alberta

Mr. Ken Lederer (Secretary)
Human Resources Research Council
11507 - 74 Avenue
Edmonton 62, Alberta

Dr. R.J. Leskiw
Dean, Faculty of Education
University of Lethbridge
Lethbridge, Alberta

Dr. J.A. Riffel
Association Coordinator
Education Studies
Human Resources Research Council
11507 - 74 Avenue
Edmonton 62, Alberta

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Sturgeon School Division
Morinville, Alberta

Mr. J.V. Van Tighem
Superintendent
Calgary Roman Catholic Separate
School District #1
Calgary, Alberta

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University of Alberta
Edmonton 7, Alberta

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University of Calgary
Calgary 44, Alberta

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Department of Psychology
University of Calgary
Calgary 44, Alberta

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Head, Dept. of Sociology
University of Calgary
Calgary 44, Alberta

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Department of Psychology
University of Lethbridge
Lethbridge, Alberta

Dr. Jean Nelson
Paediatrician
11603 - 89 Avenue
Edmonton 61, Alberta

Dr. D. Phillips
Psychiatrist
Medical Health Office
City of Edmonton
7th Floor, CN Tower
Edmonton, Alberta

Dr. K.I. Pearce
Faculty of Medicine
University of Calgary
Calgary 44, Alberta

Dr. S. Stinson
School of Nursing
University of Alberta
Edmonton 7, Alberta

Dr. F.H. Tyler
Head, School of Social Welfare
University of Calgary
Calgary 44, Alberta

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Department of Sociology
University of Alberta
Edmonton 7, Alberta

Dr. D. Larsen
Faculty of Community Medicine
University of Calgary
Calgary 44, Alberta

Mrs. S. McDaniel
Human Resources Research Council
11507 - 74 Avenue
Edmonton 62, Alberta

Dr. L.W. Downey
Human Resources Research Council
11507 - 74 Avenue
Edmonton 62, Alberta

Dr. G. Nettler
Department of Sociology
University of Alberta
Edmonton 7, Alberta

Dr. F. Roseman
Department of Economics
University of Alberta
Edmonton 7, Alberta

Dr. R. Wright, Dean
Faculty of Arts
University of Calgary
Calgary 44, Alberta

<u>Project</u>	<u>Amount Awarded</u>
The Status of the Substitute Teacher: An Alberta Study -- Professor J. Small, Department of Educational Administration, University of Alberta	425
The Mechanical Abilities of Indian Boys -- by Dr. P.E. Vernon, Department of Educational Psychology, University of Calgary.	4,730
Patterns of Communication and Their Correlates for a Sample of Adolescents -- by Dr. L.W. West, Department of Educational Psychology, University of Calgary	3,000
Development of Classification Ability in Average and Exceptional Children -- by Dr. L.A. Whyte, Department of Educational Psychology, University of Alberta.	3,300

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